

AE015929.txt

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/db_xref="GI:27316359"
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IVFFVIYIIVFTILSSSERKLIYGTTLPIALFICLIFGAIFFTPRIGIIGVFA
GVIWEFLNRKNGGRSS"

gene 1931183..1931299
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/old_locus_tag="SE1894"

CDS 1931183..1931299
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/old_locus_tag="SE1894"
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/db_xref="GI:27316361"
/translation="MYKAVVDFDGTVIDTEKHLFDLINTHLKIHQVAPISLEFYKQF
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gene 1932758..1933288
/locus_tag="SE_1896"
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CDS 1932758..1933288
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/old_locus_tag="SE1896"
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/protein_id="AA005537.1"
/db_xref="GI:27316362"
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QNNVFALEVSPLKQLPYLISFLSFHNYAIYQILLPNRVNELLDSEQLYQSIKRFDLA
IDGLQDAFIKDKVIDIMNMFANHHNVNYTLNNNCASVTCPEIFTKLLQTIATRNIDI
LSASYRAKMLHKARIS"

gene complement(1933393..1934982)
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/old_locus_tag="SE1897"

CDS complement(1933393..1934982)
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QGNGKVFQGLGIALAMYATTPKENRKKVAALLIPATLTAVVAGITEPLEFTFLFIAPF
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CDS 1935180..1935941
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1935180..1935941
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/protein_id="AA005539.1"
/db_xref="GI:27316364"
/translation="MILDERVNSNFDQLNDNDIQIAHYVNTIDVCKNMKIQDLASQT
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IPEDLFFIISLSGETHQLKEVTQLLQLRQKYFISVTMTMKDNTLAQQADYNVYVSSNTF
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gene complement(1936165..1936281)
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/old_locus_tag="SE1899"
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/db_xref="GI:27316365"
/translation="METSVLIPTNDISRHVNDIAETIPDTEFDEFYHRGLI"

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/codon_start=1
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PNVDRHSFLVEKLRLLIQQLKQSIHHLKQLDDAMIQLAQQLDYFENIHSIPGIGKLT
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SPH"

gene complement(1938158..1938670)

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RTNKSFDADIQEGGKYRIIDSRNGKQNIIEGTYEELVLDEYIKMTIGMPGLSEEDVI
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IDEIEEQRHN"
gene complement(1938967..1940268)
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GGAMFGDNLMSISDTTIAAVRTQKTKMSDKFKVNFKIVLPGAIITIIILFFLTNGISI
DHTKNYDYNLIKVIPYLLVLILALVGINVIVLIGGTVLAGIIGLIDGSFGWNGLLNA
ISKGIIGMEDIAMIALLIGGLVGIIQHNGGIDWLLNFVRSKVKSKRGAELGIASLVSA
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/old_locus_tag="SE1904"
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/old_locus_tag="SE1904"
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/transl_table=11
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gene complement(1942103..1942984)
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 YPVFWTVQKALEYLQPGGSITTTSSVQGYNPSILHDYAATKAAIISLTKSFSFAELGP
 KGIRVNCVAPGPFWSPLQIVGGQPQSAIPTFGQNTPLGRAGQPVECACTYVLLASDDA
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gene complement(1943081..1944199)
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CDS complement(1943081..1944199)
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 ATGIQLKEIEDELNGRVRLIFQPAEELGHGAFEIINTGVLKGAKAVLGFHNYPTLKVG
 EFAIKSGAITSADVDFEFNVKKGGAHAAKPEQGNPDVIVVGQLINSLQTIIVSRNL
 SAFDSAVVTIGEISCGNTWNVIADKAYIQGTVRSFDEDIRHYIENRMKNIADGLSRVFNVD
 IDLTYSRLPGAVVNDALHTQEAIEVAKNVGYHVSMLDEPVTIGEDFSGYTEEYPGVFA
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gene complement(1944669..1945604)
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 RDEGYSTSGTSFRQILEEDDNADYLVLGISQGGNTQALFNYAKEKDIIQFVYADELLHQ
 VSPPIKDMIERFIHNHDTVMFTICMDVVDSAFAPGVSAPAVLGIYPHTVFELAKRVIP
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gene 1945852..1947000
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CDS 1945852..1947000
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 /db_xref="GI:27316374"

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gene 1947466..1947561
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LIYSVFTANTTYGVEYAGYHFLYTFMFMSIIGELIRATNGRTIYIATAFHASMTFALV
FLFSEETGDLFSMKVIALSTTIVGVSFIIISLIIRAIVYKTTKQSLDEVPNNYLSHI
QDEEPSQEDASSTSNHDVSSKDETKQQDIDNDKHQSKKPNKSDDALTTSNYKEDASSV
NKETDTTHNDNIKDHSTYTEDRHSSVVNDVKDEIHEVEDHKADTDKSH"

CDS 1947466..1947561
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gene 1947562..1947747
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CDS 1947562..1947747
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CDS complement(1947986..1948678)
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/old_locus_tag="SE1911"
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LDKLILTFITKLNLNKI"

gene 1948844..1949524
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SRRVNEDVPFITDNGNYILD CSLQNRIPAYELHEFLIHLTGVL ETGYFLDIADQVIVG
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gene 1948844..1949524
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CDS 1948844..1949524
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AE015929.txt

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LGNVVEADEFYFEEFPNFGATIGRYAGRIENASFKLDDDTFQLESNDGQHHLHGSGHG
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TKKTVFNPSNHVYFNLNRDNNVVYNHCINSSALKMYMLNNKHIVKEGQSLDLHRLD
NKKVYLKDI FESDNETLQQQINHYNGIDHPFEFGGNETIDNSEFELNIKTDMPHFVMF
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EK"

gene 1951195..1952805
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CDS 1951195..1952805
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/db_xref="GI:27316380"
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PLHRHEDLKTNP HAYVKLWKHHGAQDEANYMIQMSKNKNWLDYGGSSVNSEWMIPKIL
EVKHEAPEILRRARYIMEAGDYITSILTNSNIRSNCGIGFKGFWDNEAGFN YDFFHVS
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IEAGEFTAVIGTSTCHLM LDSRQVPISSITGSVKNAIIPGLYAYEAGQPAVGDLFEYS
KNQAPKHIVDQANEHMPVNLNLEELASHIRIEEQHV VVLDWLNNGNRSILSNSHLTGS
IFGLTLQTPYEMIHRAYIEATAFGTKLIMKQFEDNHIPVHTVYASGGIPQKSKLLVEI
YANVLNKR VVIDSSNASALGAAMLGANVG NAYSTLKEAALSMKQPIAYIQEPEIQKV
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/old_locus_tag="SE1916"
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/old_locus_tag="SE1918"

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KKELHHTQIITRNEEGETDIDHRVLYNSKVENGNKVKLINENGDIKVK"
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gene

AE015929.txt

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 LIKWLFVDVTM KYLKWNISIVKGSVQS"

gene 1955903..1956070
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CDS 1955903..1956070
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 /db_xref="GI:27316388"
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gene complement(1956276..1956596)
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CDS complement(1956276..1956596)
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 /db_xref="GI:27316389"
 /translation="MNVQFKKGALELIVLLIIKKEDQYGYSLVQNISSRYMTIAEGTV
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gene 1956913..1958121
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CDS 1956913..1958121
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gene
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gene
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CDS
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/old_locus_tag="SE1962"
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      /db_xref="GI:27316432"
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AE015929.txt

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AE015929.txt

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CDS complement(2032547..2032933)

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MISHNPSILKLND DAVAYTEDVYDFWRPTGHQYPLVAGALSKDAYIKSFQESWNEYAR
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AE015929.txt

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AE015929.txt

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PYQSQVHKEINDYATRISNHLPRTNAYHEIWL DGEKVLDSSEEKEPIYGNTYLPRKF
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APRDFEFHNGDRLGWIEGINNWNFTLFIQNGRVKDTEDYLLKTALREIAEIHGTGDFR
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CDS complement(2231376..2233220)
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gene 2234452..2234571
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CDS 2234452..2234571
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FSDRGIEVDDYLRTNVKNIYASGDVINKMIPKLTPTATFESNYIAAHILGLNTDAIQY
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CDS	complement(2237827..2239083) /locus_tag="SE_2187" /old_locus_tag="SE2187" complement(2237827..2239083) /locus_tag="SE_2187" /old_locus_tag="SE2187" /codon_start=1 /transl_table=11 /product="conserved hypothetical protein" /protein_id="AA005829.1" /db_xref="GI:27316654" /translation="MFDNPKTKTEHNFNSQDRQCPKCHKVNVNDDKFCINCGHSLQQT LSNSNDNIASHTYSNTKPEIENETADHIRLTEEAKHLFNNTTKSIGRLAGNDESLKLN LRDMFSEVFKSHTKDEADDVFIAGTKRTTPHINEVSEEWGRPWVFSRVFLALGITFLA LWILTNIIFGNANAIPGMIFIGALLVPISGLIFFFESNAFKNISIFDVMRMFFIGGVLS LISTMILYQFVTFSTESQYYGIMTITDAFIVGFVEELGKATVVILFINYLKTNKILNG LLIGAAGVAGFAVFESAGYIFRFGFNLFDGVNNITEITIQRGWTALGSHLVWAAIVGA AAVIVKETKHF EWANIIDKRFIFFFFVAVTLHGIWDEITLLSSGYLKYILLIMIAWL FIFILMKAGLTQVNQLRDEYNRLEER"
gene	complement(2239297..2240406) /locus_tag="SE_2188" /old_locus_tag="SE2188"
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gene	complement(2240403..2241587) /locus_tag="SE_2189" /old_locus_tag="SE2189"
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gene	complement(2241715..2241813) /locus_tag="SE_2190" /old_locus_tag="SE2190"
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ADYHDIMDLTENMVRHIAQEVFGSAKVQYNDEEIDLESSWKRLHIVDAVKEVTGVDFY
NVNSDEEAIRLAKEHDIEITENMKYGHILNEFFEQKVEETLIQPTFIYGHPIEISPLA
KKNPNDERFTDRFELFIVGREHANAFTELNDPIDQRQRFEAQLVEKEQGND EAHMD E
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hydroxymethyldihydropteridine pyrophosphokinase"
/protein_id="AAO05909.1"
/db_xref="GI:27316734"
/translation="MVKAYLGGLGSNIGNRELQLNEAIKILHDYQGQIQVTQVSHIYETE
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gene complement(2341227..2341592)
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 /protein_id="AA005910.1"
 /db_xref="GI:27316735"
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gene
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 /db_xref="GI:27316736"
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 LAGIPHNKIWLDPGIGFPKTRREENEVMARLDELVATEYPVLLATSRKRYIKEMMNQD
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gene
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gene
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 /db_xref="GI:27316738"
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 LGVLVNPDNSIKAAGGFIIQVMPGATDETVTKLEEAI SQMPVSKLIEQGLTPEGILN
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gene
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 RVRFSVDVAGADEEKQELIEIVDFLKDNNKFKQMGSRI PKGVLLVGPPGTGKTLLARAV
 AGEAGAPFFSISGSDVFEMFVGVGASRV RDLFENAKKNAPCIIIFIDEIDAVGRQRGAG
 VGGGHDEREQTLNQLLVEMDGFGENEIIIMIAATNRPDILDPALLRPGRFDRQIQVGR
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 PRGQAGGYAMMLPKQDRFLMTEPELLDKICGLLGGRVSEDINFGEVSTGASNDFERAT
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 EQYERCKQILLEHEEQKLIAKTLLSEETLVAEQIQSLFYDGVLPEDVDYDSAKVVKNE
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gene
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 /db_xref="GI:27316740"
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gene
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 GDIIAQLRADVLLTAHHLDDQFETIIYRLFTGRSTRNSLGMTYESYFNQYKVYRPMNLN
 LKKTEILAYQYANQIPYEDMSNQDRKYVRNDIRQRIIPAINENPHLNAHQLLKLDW
 HDIELQSLKEQAETFINNEVSKSKYLTYFSRTAFNELNVNISKSVVMDLLFEKLDCHL
 AMPQHAYDEWFEQIRNDKSQFNHVTDEWIIQIAYDKLIIMAKSEMDQYILDRICIRK
 PGTYEFNDYQIDIHPDL PQQLYPLTVRVRQNGDVYKLNQKQGHKKVSRLFIDKKVTLA
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gene
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 complement(2349581..2349982)
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gene /old_locus_tag="SE2275"
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/db_xref="GI:27316743"
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ILILLVLLVIQRHNNDQDAVERKEKETEFQKQQDEEIALKEKLNNDKDYIEKIARD
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gene complement(2350501..2350764)
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/db_xref="GI:27316744"
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DELIIRFGQKLVTVKVTGLSDHATKENAKGMYDLIKEERINEE"

gene complement(2350761..2351951)
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QVYSVMIAADLKLTLMERYPDDFNVKIITGSHSDGAHVIECPLYEIDRYDDYFNNLTS
LFIPKINEDTLLYQDFDYAVQTI DILLVDNEKGCPWDKVQTHDSLKRYLLEETFELFEA
IDNEDDWHMIEELGDILLQVLLHSSIGKKEGYIDIKEIIESLNTKMIHRHPHIFGNAH
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EKNS"

gene complement(2351948..2353489)
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LIIVAIIMFSMKHWSIYQAGALAILASSIGFLGSMLYLLKKPLKLCYRFNNTSIQ
WKQLFISISIFALSQILIVILWQVVDSTFIIRLLQHSGLAFKEAIIQKGIYDRGASFIQ
MGLIVTTTTFSFVLIPLLTQAIREHNQIHMNRYANASIKITVVISTAASIGLINLLPLM
NVVFFKSNHLTLTSLVYMFTVICVSLIMMNISLLQVQTSIRPIIMGVIIGILSKIILN
VILIPFWGIVGASVSTVLSLLL FVILQVAVLKYYRFNRISLFIVKLILGMIIMSIVV
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RGRRS"

gene complement(2353479..2356988)

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YRRESVVS HIGEFSLRGGIIDIYPLIGTPVRIELFDTEVDSIRD FDVETQRSNDNINQ
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HQLLRRLVSFMYEKPSTLIDYFQKNAIIVVDEFNRIKETEETLTTEVEDFMSNLIESG
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SEGFELPYMQLVVITERELFKTRQKKQRKRTKISNAEKIKSYQDLNVGDYIVVHHG
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SKSIDEIKGDMERARPMDRLLCGDVGYGKTEVAVRAAFKAVMDGKQVAFVPTTILAQ
QHYETLLERMQDFPVEIQLVSRFRTAKEIRETKEGLKSGYVDIVVGTHKLLGKDIQYK
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PENRFPVQTYVLEQNTNFIKEALERELSRDGQVFYLYNKVQSIYEKREQLQRLMPDAN
IAVAHQMTERDLEETMLSFINHEYDILVTTTTIETGVDVPNANTLIIIEEADRFGLSQ
LYQLRGRVGRSSRIGYAYFLHPANKVLNETAEERLQTIKEFTELGSGFKIAMRDLNIR
GAGNLLGKQQHGFIDSVGFDLYSQMLEEAVNEKRGIKEESPDAPDIEVELHLDAYLPA
EYIQSEQAKIEIYKKLRKVETEEQLFDVKDELIDRFNDYPIEVERLLDIVEIKVHALH
AGVELIKDKGKSIQIILSPKATEDINGEELFKQTQPLGRAMKVG VQNNAMNVTLTKSK
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gene complement(2356985..2357557)

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CDS complement(2356985..2357557)

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/protein_id="AA005923.1"

/db_xref="GI:27316748"

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AYTIERLNGEKVLFIEPMTMMNLSGQAVAPLMDYYNV DVEDLIVLYDDLDLEQQGVRL
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gene complement(2357810..2358469)

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 EVQVQLVGEAVGAKEGGVVEQPLFNLEVTATPENIPETIEVDISELQVNDSLAVSDIK
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gene complement(2358639..2359604)
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 /db_xref="GI:27316750"
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 HFENDPDINPEECVVVSPDHGGVTRARKLADILKTPIAIIIDKRRPKPNVAEVMNIVGD
 IEGRTAIIIDDIIDTAGTITLAAQALKDKGAKEVYACCTHPVLSGPAKERIENSAIKQ
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gene complement(2359748..2361103)
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 SERAIKEISSGIFAFNNRVLFEKLEQVKNDNAQGEYYLPDVLSLILKDGGAKEVYCTE
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 GVRIGGHTTIEEDVWIGQYSEINNSTIHSNANIKQSVINDSIVGENTTVGPFAQLRPG
 SNLGSEVKVGNFVEVKKADIKDGAKVSHLSYIGDAEIGERTNIGCGSITVNYDGANKF
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gene complement(2361713..2362021)
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           /db_xref="GI:27316753"
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           /old_locus_tag="SE2287"
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           /db_xref="GI:27316754"
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KDNKVTGSTVSYNYVSGSSRKIETMVLSKRTLAENSNVLVDDFMRAGGSINGVMNL
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kinase"
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           /db_xref="GI:27316755"
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PSAWVVLAKPNIGISSPDVFKALDLTEEHIVHNEKCKQALENNDYHLLCNSLSNRLEP
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LVRLLG"
gene      complement(2364563..2364826)
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CDS       complement(2364563..2364826)
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           /db_xref="GI:27316756"
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gene      complement(2364926..2365816)

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 EVELVKEESYFFNINKYTDRLLEFYDENPDFIQPPSRKNEMINNFIPGLEDLAVSRT
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AE015929.txt

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CDS complement(2372619..2373545)
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 EMSIARPVAEMLSTYTTQIEAASSLNEEFDLVTLRKSIIRWQCLILSNKAMALIGVIE
 LLKQAKNRKLQLLTL SAVNGFFEDIMHAKIEMDNYYTFSDLTEEIENYANQLTFNQLI
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 /db_xref="GI:27316768"

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DLLVNMGFTVIEPEDPLKLVVSFEGVEGYDVQKWFEDEIYVELADMYQVLLVPLWH
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/db_xref="GI:27316770"
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gene complement(2377205..2377319)
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gene complement(2377479..2380311)
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rRNA complement(2377479..2380311)
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gene complement(2379311..2379424)
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rRNA complement(2380573..2382126)
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KPIGIKVTRLAQGLSVGGDLEYADEVTLSKAIAGRTEM"

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CDS complement(2383504..2383821)
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KIPPTIISRQRFDFKAISSDQIIDRLKYVANSQSLDYDDAALEFIAKASEGGMRDAL
SIMDQAIAFGDERLTLQDALNVTGSVDEAALNELFNDIVKSDVKA AFNRYHHFISEGK
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/db_xref="GI:27316775"

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VGTIFALIYTAIEAIFNIPTITYGAWTGISLHEIAQVLAAGIGGSEAMTFALLGKLG
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DEMVIYKKSIIQPRMDICFVREKSGSTRFYQEVLSELKLNPLYIEINNIKIIKQMV
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gene complement(2391016..2395512)

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gene 2397831..2398616
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NLNQHQLFQSGMRVGREILATSANTIYLAFFGGQLTLFFWFFKLKYSFGHIINSKIFT
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/old_locus_tag="SE2316"
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/db_xref="GI:27316783"
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CDS 2400356..2401861
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alpha-glucosyltransferase"

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 SHIDYFVAGVSGGTFTGVAQHLKTYDVKNYIVEPEGSVLNGGVSHPHATEGIGSEKW
 PSFLEKELVDGIFTVADKDAFN NVKLVANKEGLLVGSSSGAALQGALELK KSIQNGVI
 VTIFPDGSDRYMSKQIFNYKESFNNE"

gene
 2408659..2409198
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 /old_locus_tag="SE2325"

CDS
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CDS	<p>complement(2409377..2410627) /locus_tag="SE_2326" /old_locus_tag="SE2326" complement(2409377..2410627) /locus_tag="SE_2326" /old_locus_tag="SE2326" /codon_start=1 /transl_table=11 /product="sodium-dependent transporter" /protein_id="AA005969.1" /db_xref="GI:27316794" /translation="MWKFPYMAGIYGGGAFLLMFLIFTIFVGLPLLIMEFTVGKMGRT YTTQIYKKLTGKKWLNIIIGWNGNLAVFILFGFYSVIGGWIIIYIGYVIAQIMVFKSST LTNIQFETIISNPWLTVLGGGIFILITMVIIVMLGVEKGLEKASKIMMPLLFIFLIIVV AQSLTLEGALEGVRYILQPRVEDMSIQGVLFALGQSFFTLISLGTGMITYASYAPKMN TIKSSALSIVVMNILISVLAGLAIFPALKTFGYQPQEGPGLLFKVLPLVFSEMFTGTF FYFIFLLLFLFAALTSSISLLELNVSNFTKNDNSKRQKVAIIGSILVFIISIPATLSF SSLSHLRFGAGTIFDNMDFIVSNILMPLGALGTTLVVGQLLDKKLLKESFGKDKFNLF LPWYYLIKFIPIVIVILVFIVQLF"</p>
gene	<p>complement(2410850..2411092) /locus_tag="SE_2327" /old_locus_tag="SE2327"</p>
CDS	<p>complement(2410850..2411092) /locus_tag="SE_2327" /old_locus_tag="SE2327" /codon_start=1 /transl_table=11 /product="hypothetical protein" /protein_id="AA005970.1" /db_xref="GI:27316795" /translation="MKRTFLLTYTTVSGKTYTEFKTFENGPDYDTCVSRIIDEFDELA YLYIKKDVVHYINVDHIESLDIEEVTEGQHITYDFE"</p>
gene	<p>complement(2411107..2411835) /locus_tag="SE_2328" /old_locus_tag="SE2328"</p>
CDS	<p>complement(2411107..2411835) /locus_tag="SE_2328" /old_locus_tag="SE2328" /codon_start=1 /transl_table=11 /product="putative carboxylesterase" /protein_id="AA005971.1" /db_xref="GI:27316796" /translation="MKVKSPQSIYLGKGRQQAVALLLHSFTGTVRDVKHLAQQLN EEGF TCYVPSYPGHGLPLKEFTQHNINDWWEQVTAAYQFLRNAGYSRINVTGVS LGGLFTLR LAEHFDLERIAVMSAPHKKRESEIAWRLERYGHRMNEILSLSEEERRHQMETILSYDK EIEVFQGVIDEIMAYLANITVPVNIMYGEEDDPLYAQAQYIYDNVNSQDKELLKFEK SGHLMTYGDHAYRVEQSIIQFFSK"</p>
gene	<p>complement(2411942..2412613) /locus_tag="SE_2329" /old_locus_tag="SE2329"</p>
CDS	<p>complement(2411942..2412613) /locus_tag="SE_2329" /old_locus_tag="SE2329" /codon_start=1 /transl_table=11 /product="conserved hypothetical protein" /protein_id="AA005972.1" /db_xref="GI:27316797" /translation="MNFKYMNIAGKIIPILISMIILLSFISTHVLAQNQWLRMVDLSV</p>

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CDS complement(2422895..2423206)
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VLLILIIIVGVTACTGTFVNEVDKEINEEGKLDKDKDTIKSIGETTEIDGVSFTLDNA
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gene
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/old_locus_tag="SE2343"

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2425349..2425504
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/old_locus_tag="SE2343"
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/db_xref="GI:27316811"
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KKTNEDKKSGEQKKSQEKKNKSMQESATNEQVQSQQQTNNNQQQYSDEYLANNSVSN
DDQLSSEEQQKYNENTNENKQNSHVDLNSLPATDFRTDWMSESGQKQVNDLANQKDSG
QISQYEFNDRVSDVMNNEIDNQPP"

gene
2425660..2425908
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/old_locus_tag="SE2344"

CDS
2425660..2425908
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/old_locus_tag="SE2344"
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/transl_table=11
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/protein_id="AA005987.1"
/db_xref="GI:27316812"
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SGLKDTN"

gene
2425928..2426455
/locus_tag="SE_2345"
/old_locus_tag="SE2345"

CDS
2425928..2426455
/locus_tag="SE_2345"
/old_locus_tag="SE2345"
/codon_start=1
/transl_table=11
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/protein_id="AA005988.1"
/db_xref="GI:27316813"
/translation="MRIGELLAIQPENIDFKNKKLIIDGTIHWKKEGNNLGFKDTTKT
ALSYRTISLTTRSCDILRKVMLEYKKAQWKNMYVDRDFIFTNHHKGNPISLTSINRNI
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MDKDMMSKLEKVGIN"

gene
2426458..2427363
/locus_tag="SE_2346"
/old_locus_tag="SE2346"

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CDS 2426458..2427363
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 /old_locus_tag="SE2346"
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 DDVNEDGYTIVQDFINNHNGLDKIFSSVIKRDGTVIPSFQKYDDPPIWVCLELMTF
 GQFSAFVEFYSSERTNDSERKAGKFIKFAKNIRNKCAHSQPILLNLNPRKNFTVEREL
 KKIGRKQRLSDKNLKVLAIIDILALLVLHLSKYCSKGIKDNRKNDLLTFKQRKNRYFHH
 YRNVPSLSFFFLSLNKMIDYYVQNN"

gene complement(2427604..2429145)
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 /protein_id="AAO05990.1"
 /db_xref="GI:27316815"
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 EIKRMNPKGIILSGGPNSVYEEGSFTIDPEIYNLGIPLVLCICYGMQLTTKLLGGKVER
 ANEREYGKATINAKSDELFFGLPSEQTVWMSHSDKVIEIPEGFEVIADSPSTNYAAIE
 DKKRRIYGVQFHPEVRHTEYGNLLRNFRVRCNCTGEWTMENFIEIEIEKIRQQVGN
 RKVLCAMSGGVDSVVAVLLHKAIGEQLTCIFVDHGLLRKGEQDMVMEQFGEFGDMNI
 IRVNAQERFMSKLGVSDDPERKRKIIGNEFVYVFDDEAAKLTVDVFLAQGTLYTDVIE
 SGTAKTAQTIKSHHNVGGLPEDMEFELIEPINTLFKDEVRLGIELGIPEHLVWRQFPF
 GPGLGIRVLGEITEDKLEIVRESDAILEVIREEGLERDIWQYFTVLPGIQSVGVMGD
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 TIEWE"

gene complement(2429312..2430778)
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 /product="inositol-monophosphate dehydrogenase"
 /protein_id="AAO05991.1"
 /db_xref="GI:27316816"
 /translation="MWENKFAKESLTFDDVLLIPAASDVLPSDVLDSVKLSDKIKLNI
 PVISAGMDTVTESKMAIAMARQGGLGVIHKNMGVEEQADEVQKVKRENGVISNPFLL
 TPEESVYEAELMGKYRISGVPIVDNQEDRKLIGILTNRDLRFIEDFSIKISDVMTKD
 NLITAPVGTTLDEAEAILQKHKIEKLPLVENGRLEGLITIKDIEKVLEFPYAAKDEHG
 RLLAAAAIGTSKDTEIRAQKLVEAGVDALIIDTAHGHSKGVINQVKHIKETYPEITVV
 AGNVATAEATRALFEAGADVVKVGIGPGSICTRRVAGVGVPQITAVYDCATEARKHG
 KAIIDAGGIKFSGDIKALAAGGHAVMLGSLLAGTEESPGATEVFQGRQYKVYRGMGS
 LGAMEKGSNDRYFQEDKTPRKFPVPEGIEGRTAYKGPLQDTIYQLMGGVVAGMGYTGSE
 NLKKLREEAQFTRMGPAGLAESHPHNVQITKESPNYSF"

gene complement(2430816..2432084)
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 /old_locus_tag="SE2349"

CDS complement(2430816..2432084)
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 /old_locus_tag="SE2349"
 /codon_start=1
 /transl_table=11

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gene /product="xanthine permease"
/protein_id="AA005992.1"
/db_xref="GI:27316817"
/translation="MKNFILSVQHLLAMYAGAILVPIIVGTSLKFSAEEIAYLVTVDI
FMCGVATFLQANKVTGTGLPIVLGCTFTAVAPMILIGQTKGLDVLYGSLLISGILVVL
IAPFFSYLVKFFPPVVTGSSVVTIIGINLMPVAMNYLAGGEGAKNYGDTKNLILGGVTL
LIILILQRFTKGLKSLAILIGLAIGTALAGIFGMVDIKQVGDAHWFGFPVFRFSGF
GFDVSSILVFFIVAVVSLIESTGVYHALSEITGRKLERKDFRKGTYAEGLAAILGSIF
NAFPYTAYSQNVGLVSLGAKKNNVIYGMVILLICGICPKLGALANIPLPVLGGAM
IAMFGVMVAYGVSI LGNINFQNNLLIIAISVGLGAGISAVPQAFKGLGEQFAWLTQ
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complement(2432084..2432662)
/locus_tag="SE_2350"
/old_locus_tag="SE2350"

CDS complement(2432084..2432662)
/locus_tag="SE_2350"
/old_locus_tag="SE2350"
/codon_start=1
/transl_table=11

gene /product="xanthine phosphoribosyltransferase"
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/db_xref="GI:27316818"
/translation="MESLGRKVKEDGVVIDEKILKVDGFLNHQIDAKLMNDVGKTFYE
SFKDAGITKILTIEASGIAPAIMASFHFDVPCLFAKKAKPSTLKDGFYSTDIHSFTKN
KTSTVIVSEEFGLGADDKVLIIDDFLANGDASLGLNDIVKQANATTVGVGIVVEKSQFN
GRQRLEDAGLYVSSLCKVASLKGKVTLLGEA"
2433259..2433666
/locus_tag="SE_2351"
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CDS 2433259..2433666
/locus_tag="SE_2351"
/old_locus_tag="SE2351"
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/transl_table=11

gene /product="conserved hypothetical protein"
/protein_id="AA005994.1"
/db_xref="GI:27316819"
/translation="MAKITVNNQDELYKVINQKKSEGYLETELAVISKSKLHLLDDLH
NSQISLMATSGSFSDRMSRLLTGEDGEETVLSRYDLTDNELEGYKQDILNDKMLVVAN
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2433794..2434459
/locus_tag="SE_2352"
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CDS 2433794..2434459
/locus_tag="SE_2352"
/old_locus_tag="SE2352"
/codon_start=1
/transl_table=11

gene /product="conserved hypothetical protein"
/protein_id="AA005995.1"
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NLR"
2434585..2435487
/locus_tag="SE_2353"
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CDS 2434585..2435487
/locus_tag="SE_2353"
/old_locus_tag="SE2353"
/codon_start=1

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 2435796..2437184
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 /old_locus_tag="SE2354"

CDS
 2435796..2437184
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 /old_locus_tag="SE2354"
 /codon_start=1
 /transl_table=11
 /product="proton/sodium-glutamate symport protein"
 /protein_id="AA005997.1"
 /db_xref="GI:27316822"
 /translation="MEILFTVINIVILLVFLIMLNIMARKHVSFPRKRVFTALAIQIVF
 GIVLHLIYGAEKTLQSTDFSIWGDGYVALLQMIYVPLIFISIVAASFQIGKEF
 AKIGSYIFMFLIGTVAIAAIVGIFYALIFGLDASSIDLGSAEHSRGTEISKQAKDLTA
 NTLPPQILEVFPSPNPLDFTGQRTTSTIAVVIFATFVGFAYLRVARKQPEHGSLLKRG
 IEAIYSIVMAIVTFVRLTPYGILAIMASTLATSDFSIAIWLTKGFLIASYAALITMYI
 IHLIILSVLGINPVKYVKKTIEVLIFAFSTRSSAGALPLNVQTQTKRLGVPEGIANFS
 ATFGLSIGQNGCAGIYPAMLAVMVAPVANVEIDFQFVVTLIAVVISSFGVAGVGGGA
 TFASILVLSTLNLPAVALAGVLISIEPLIDMGRTALNVNDSMLAGTGARTLNHWDKKT
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gene
 complement(2437308..2438072)
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 /old_locus_tag="SE2355"

CDS
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 /old_locus_tag="SE2355"
 /codon_start=1
 /transl_table=11
 /product="nitro/flavin reductase"
 /protein_id="AA005998.1"
 /db_xref="GI:27316823"
 /translation="MGIVSDYVYELMKQHHSVRKFKNQPLGSETVEKLVEAGQSASTS
 SYLQTYSIIGVEDPSIKARLKEVSGQPYVLDNGYLFVFLDYRHHVLVDEVAASNMET
 SYGSAEGLLVGTIDVALVAQNMVAEADMGYGIVYLGSLRNDVARVREILNLPDYTFP
 LFGMAVGEPSPDEENGSPKPRLPFKHIFHKDQYDANQHQRKELEAYDQVVSEYYKERT
 NGVRTENWSQIETFLGRKTRLDMLDELKKAGFIKR"

gene
 2438204..2438983
 /locus_tag="SE_2356"
 /old_locus_tag="SE2356"

CDS
 2438204..2438983
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 /old_locus_tag="SE2356"
 /codon_start=1
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 /product="2-oxo-hepta-3-ene-1,7-dioate hydratase"
 /protein_id="AA005999.1"
 /db_xref="GI:27316824"
 /translation="MTLTNKEVAKVLFKAYRYKKPIDFISENYQLNEEEAYHVQEELI
 DQLTFKDHSTVTGYKVSMTSKATQAIANTNEPAYGTLLSNQIVNDGASVLSSELSPL
 LEPEIIFIVQEDLPYDADLETIRYHTRIAPGIEIPDARYKNWFPNFTLSDLISDNTAT
 GLVVVGDPVDGLDNDAFANVHLNLYKDNKCIATGESSEVLGNPLNAIHWLIKKLHHTG
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gene
 2439428..2439997

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CDS
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 /codon_start=1
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 /product="alkyl hydroperoxide reductase subunit C"
 /protein_id="AA006000.1"
 /db_xref="GI:27316825"
 /translation="MSLINKEILPFTAQAYDPKKDEFKEVTQEDFKGSWNVVCFYFAD
 FSVFCPTLEDLQNYAKLQELGVNVYSVSTDTHFVHKAWHDHSDAISKLEYSMIGDP
 SQTITRNFVDLDEESGLAQRGTFIIDPDGVVQAAEINADGIGRDASTLVNKKIAAQYV
 RQHPGEVCPAKWEEGESLQPGDLVGKI"

gene
 2440012..2441535
 /locus_tag="SE_2358"
 /old_locus_tag="SE2358"

CDS
 2440012..2441535
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 /old_locus_tag="SE2358"
 /codon_start=1
 /transl_table=11
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 /protein_id="AA006001.1"
 /db_xref="GI:27316826"
 /translation="MLNADLKQQLQQLLELMEGDVEFVASLGSDDKSNELKELLNEIA
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 SENIMAVPAVFLDGGQEFNGRMTVQDILTKLGSTQDASEFNDKDPYDVLIVGGGPASG
 SAAIYTARKGLRTGIVADRIGGQVNDTAGIENFITVKETTGEFSSNLAEHIAQYDID
 TMTGIRATNIEKTDSAIRVTLENDAVLESKTVIISTGASWRKLNIPGEDRLINKGVAF
 CPHCDGPLFENKDAVIGGGNSGVEAAIDLAGIVKHVTLFEYASELKADSVLQERLRS
 LPNVDIKTSAKTTEVIGDDYVTGISYEDMTTGESQVVNLDGIFVQIGLVPNTSWLQNA
 VELNERGEVMINRDNATNPVGI FAAGDVTQKNKQIIISMAGANAALNAFDYIIRN"

gene
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 /locus_tag="SE_2359"
 /old_locus_tag="SE2359"

CDS
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 /locus_tag="SE_2359"
 /old_locus_tag="SE2359"
 /codon_start=1
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 /product="hypothetical protein"
 /protein_id="AA006002.1"
 /db_xref="GI:27316827"
 /translation="MADYMNIPVSI GFFIIKNRAPTWELCEVKIFMINNVLKINF"

gene
 2441796..2442419
 /locus_tag="SE_2360"
 /old_locus_tag="SE2360"

CDS
 2441796..2442419
 /locus_tag="SE_2360"
 /old_locus_tag="SE2360"
 /codon_start=1
 /transl_table=11
 /product="conserved hypothetical protein"
 /protein_id="AA006003.1"
 /db_xref="GI:27316828"
 /translation="MKKRVITYLILALSLTAACSNTNDNNNQEHHSNAHAPKNAKTL
 KEKDIFSSNKKGQKISEKEMKQALEKYLQANSVDLDNKYVMQHKLDKQSDSNPKITES
 QADRLSKLSNLAVKNDLHFKKFIKNNHIPEEYKDPTDRIINYFHALNSTISNVDEIE
 KLNYPQNSINVVDVPTKYSGDVNKKQQDKITTFLLKKKGIDTEVFNK"

gene
 complement(2442587..2442685)
 /locus_tag="SE_2361"

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          /old_locus_tag="SE2361"
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          /db_xref="GI:27316829"
          /translation="MVDSIAKIINVKRIFIMIFLISFYLEKIYMLY"
gene      2442639..2443016
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          /old_locus_tag="SE2362"
CDS      2442639..2443016
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          /old_locus_tag="SE2362"
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          /db_xref="GI:27316830"
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TTIVIMALPALILGIFNHLTCRIISAILQISALMMWGFLVIISLIMGQIVIIILMASLT
ILALLVSSIVTILSVHPSTSDKIN"
gene      complement(2443017..2443184)
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          /old_locus_tag="SE2363"
CDS      complement(2443017..2443184)
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          /old_locus_tag="SE2363"
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          /db_xref="GI:27316831"
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TEKFNLSCPFI"
gene      complement(2443376..2443966)
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          /old_locus_tag="SE2364"
CDS      complement(2443376..2443966)
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          /old_locus_tag="SE2364"
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          /db_xref="GI:27316832"
          /translation="MEIYLVRHGESQSNYDNKHGYLYFCGQLDVPLTERGIKSAKELS
VYFKNKYIDNIYLSDLKRTRQTYEELFPYDIPTIYTKTLRERSLGVFEGENKEEVCKD
KRFEKYFRDPNYKYFRHSFSQKAPQGESYQDVYDRVVTFIENELNQKQKRVVIVAHQV
VIRCFVYFKMITKEEALATEIHNCYPYLIKKEMKF"
gene      complement(2443987..2444652)
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          /old_locus_tag="SE2365"
CDS      complement(2443987..2444652)
          /locus_tag="SE_2365"
          /old_locus_tag="SE2365"
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          /db_xref="GI:27316833"

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EVALFAFSVVVVICLWFLFCVFIFQYIKLLFSRPRFKAIFDYIVGVFLIGLSINLLLS
KSS"
gene      complement(2444879..2444974)
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          /old_locus_tag="SE2366"
CDS       complement(2444879..2444974)
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          /old_locus_tag="SE2366"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="AA006009.1"
          /db_xref="GI:27316834"
          /translation="MLMMSNRLSYINYSYQSIQTNKNGVGAF FML"
gene      complement(2445091..2445345)
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          /old_locus_tag="SE2367"
CDS       complement(2445091..2445345)
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          /old_locus_tag="SE2367"
          /codon_start=1
          /transl_table=11
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          /db_xref="GI:27316835"
          /translation="MFGLIGMIIVGGIIGWIAGLILGKDVPGGILGNIIAGIVGSWVG
TMILGEWGPQLGKIHFALLGSIILIFIISLILKALRKK"
gene      2445567..2445827
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          /old_locus_tag="SE2368"
CDS       2445567..2445827
          /locus_tag="SE_2368"
          /old_locus_tag="SE2368"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="AA006011.1"
          /db_xref="GI:27316836"
          /translation="MQHKNKFQRINQIIQVIGFLSFLAILTIITLNFFIKGHLQGHFE
IGFNISQSNQVYVVTLLIIVTIICTILSAILNMLSNNKKQNYKH"
gene      2445932..2446063
          /locus_tag="SE_2369"
          /old_locus_tag="SE2369"
CDS       2445932..2446063
          /locus_tag="SE_2369"
          /old_locus_tag="SE2369"
          /codon_start=1
          /transl_table=11
          /product="conserved hypothetical protein"
          /protein_id="AA006012.1"
          /db_xref="GI:27316837"
          /translation="MWHINLHILYNLRTKRHIEIEELTTQLNKKNGTHNKPLQIWEW"
gene      complement(2446297..2446539)
          /locus_tag="SE_2370"
          /old_locus_tag="SE2370"
CDS       complement(2446297..2446539)
          /locus_tag="SE_2370"
          /old_locus_tag="SE2370"
          /codon_start=1
          /transl_table=11

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gene /product="30S ribosomal protein s18"
/protein_id="AA006013.1"
/db_xref="GI:27316838"
/translation="MAGGPRRGRRRKVCYFTANGITHIDYKDELLKRFISERGI
LPRRVGTSAKYQRMILTAAIKRARHMALLPYVKEEQ"
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/old_locus_tag="SE2371"

CDS complement(2446584..2447093)
/locus_tag="SE_2371"
/old_locus_tag="SE2371"
/codon_start=1
/transl_table=11

gene /product="single-strand DNA-binding protein of phage phi
PVL"
/protein_id="AA006014.1"
/db_xref="GI:27316839"
/translation="MLNRVVLVGRLLTKDPEYRTTPSGVSVATFTLAVNRTFTNAQGER
EADFINCVFRRQAENVNNYLSKGSAGVDGRIQSRSYENQEGRRIFVTEVVCDSVQF
LEPKNAHQHGGQRSQNNNFQDYGQGGGQSGQNTSYNNNNSSNSNQSDNPANANGPI
DISDDDLPF"

gene complement(2447116..2447412)
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/old_locus_tag="SE2372"

CDS complement(2447116..2447412)
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/old_locus_tag="SE2372"
/codon_start=1
/transl_table=11

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gene 2447797..2448606
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CDS 2447797..2448606
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/old_locus_tag="SE2373"
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gene /product="1,4-beta-N-acetylmuramidase"
/protein_id="AA006016.1"
/db_xref="GI:27316841"
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PAFYINDYEEQTVKSGDDETATQAWANEMRKLGNKKILFYSYENFMLNHASNAVSSY
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gene 2448680..2448871
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CDS 2448680..2448871
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gene /product="conserved hypothetical protein"
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DKVKAIREYAANEDSEVIVISAKIEEEIATLDDDEKEMFLEDLGIEEPGLDRLIRTTY
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gene complement(2462361..2462492)
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gene 2467683..2469188
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CDS 2467683..2469188
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alpha-glucosyltransferase"
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ORIGIN

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